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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/349,347	07/07/1999	CATHERINE ROSENBERG	585-1003	6531	
7.	590 03/06/2003				
WILLIAM M LEE JR			EXAMINER		
LEE MANN SMITH MCWILLIAMS SWEENEY & OHLSON PO BOX 2786 CHICAGO, IL 606902786			ABELSON,	ABELSON, RONALD B	
			ART UNIT	PAPER NUMBER	
			2///		

DATE MAILED: 03/06/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

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,iu		Application No.	Applicant(s)			
Office Action Summary		09/349,347	ROSENBERG ET AL.			
		Examiner	Art Unit			
		Ronald Abelson	2666			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	correspondence address			
THE N - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1: SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period vere to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
1)🛛	Responsive to communication(s) filed on 07.	lanuary 2003 .				
2a) 🗌	This action is FINAL . 2b)⊠ Th	is action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
•	on of Claims					
•	Claim(s) <u>1-44</u> is/are pending in the application					
	4a) Of the above claim(s) is/are withdraw	wn from consideration.				
	☑ Claim(s) <u>20,21,42 and 43</u> is/are allowed.					
·	Claim(s) <u>1-6,13,19,22-28,35,41 and 44</u> is/are r					
7)⊠	Claim(s) <u>7-12,14-18,29-34 and 36-40</u> is/are ob	jected to.				
•	Claim(s) are subject to restriction and/o	r election requirement.				
	ion Papers					
•	The specification is objected to by the Examine		ha Evaminar			
10)⊠ The drawing(s) filed on <u>07 July 1999</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of: 1.⊠ Certified copies of the priority documents have been received.						
	Certified copies of the priority documents have been received in Application No					
Copies of the certified copies of the priority documents have been received in this National Stage						
* 5	application from the International Bu See the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).	/ .a			
14)[] A	Acknowledgment is made of a claim for domesti	ic priority under 35 U.S.C. § 119(e) (to a provisional application).			
) The translation of the foreign language pro Acknowledgment is made of a claim for domest	• •				
Attachmen	t(s)					
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)			
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.. Application/Control Number: 09/349,347

Art Unit: 2666

Claim Rejections - 35 USC § 102

1. Claims 1-6, 13, 19, 22-28, 35, 41, and 44 are rejected under 35 U.S.C. 102(e) as being anticipated by Davis (US 6,157,654).

Regarding claims 1, 13, 23, 35, Davis teaches a method and apparatus for an integrated connection admission control (CAC) (fig. 1 box 12) and bandwidth on demand (BoD) (fig. 1 box 16) system for allocating the resource of a common medium uplink of a multiple access (MA) asynchronous network (col. 2 lines 7-14).

The CAC comprises a mans for allocating static resource to all virtual connection (VCs) or groupings of VCs accepted by the CAC (trBW, col. 5 lines 8-11, 38-40, Table 1) and means for booking dynamic resource to the VCs that require guaranteed dynamic resource (ssBW, col. 5 lines 22-24, 38-40, Table 2).

The BoD/WFQ Control comprises means for allocating dynamic resource to VCs or to groupings of VCs requesting dynamic resource in such a way that all VCs or grouping of VCs requesting dynamic resource are dynamically allocated resource up to at least the guaranteed dynamic resource which has been booked for them by the CAC (col. 5 lines 40-42, spare bandwidth, col. 6 lines 57-61).

.. Application/Control Number: 09/349,347

Art Unit: 2666

Regarding claims 13, 23, 35, in addition to the limitations in claim 1, Davis teaches when the requested resource from the VC or group of VCs is less than or equal to the booked dynamic resource for the VC or group of VCs, the BoD allocates the VC or group of VCs all the requested resource, when the requested resource from the VC or group of VCs is greater than the booked dynamic resource for the VC or group of VCs, the BoD allocates the VC or group of VCs the booked dynamic resource and additionally the BoD allocates the VC or group of VCs a share of the remainder of the requested resource, from the remaining resource capacity of the common medium uplink (fig. 3 box 1-4, col. 3 lines 23-35).

Regarding claims 19, 22, 41, and 44, the means for allocating static resource in the CAC and the means for allocating dynamic resource in the BoD are constrained to allocate resource in such a way that traffic on the common medium access uplink is shaped by the integrated CAC and BoD resource allocation system (col. 2 lines 46-52).

Regarding claims 2 and 26, the groupings of VCs are within the same subscriber access unit (SAU) or terminal (source behavior, col. 1, lines 12-18).

. Application/Control Number: 09/349,347

Art Unit: 2666

Regarding claims 3 and 24, the means for allocating static resource in the CAC allocates static resource to a VC when a VC is set up for the duration of the connection associated with the VC (col. 4 lines 25-32, col. 5 Tables 1&2, note trBR, the bandwidth associated with CBR and rtVBR has a required minimum value).

Regarding claims 4 and 25, the means for booking dynamic resource in the CAC reserves booked dynamic resource to a VC when a VC is set up for the duration of the connection associated with the VC (guarantee a certain sustained cell rate, col. 5 Table 2, lines 59-63).

Regarding claims 5 and 27, wherein the means for allocating static resource in the CAC allocates static resource to a group of VCs and changes the amount of static resource allocated to a group of VCs when new connections are set up or connections are released within the group (fig. 4, boxes 1, 5-7, col. 7 lines 36-39).

Regarding claims 6 and 28, the means for booking dynamic resource in the CAC books dynamic resource to a group of VCs and

Application/Control Number: 09/349,347

Art Unit: 2666

changes the amount of booked resource allocated to a group of VCs when new connections are set up or connections are released within the group (fig. 4, boxes 1-4, col. 7 lines 36-39).

Allowable Subject Matter

- 2. Claims 20-21, 42 and 43 allowed.
- 3. Claims 7-12, 14-18, 29-34, 36-40 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 4. The following is a statement of reasons for the indication of allowable subject matter.

Regarding claims 7, 8, 29, 30, nothing in the prior art of the record teaches or fairly suggests the specific equation for allocating bandwidth, in combination with the other limitations listed in the claims.

Regarding claims 9-12, 31, 32-34, 40, nothing in the prior art of the record teaches or fairly suggests allocating resources on a periodic basis, in combination with the other limitations listed in the claim.

Regarding claims 14, 16, 36, 38, nothing in the prior art of the record teaches or fairly suggests allocating dynamic

. Application/Control Number: 09/349,347

Art Unit: 2666

resources by maximizing the sum of the natural logarithms, in combination with the other limitations listed in the claims.

Regarding claims 15, 37, nothing in the prior art of the record teaches or fairly suggests allocating dynamic resources by maximizing the product of all the BEs, in combination with the other limitations listed in the claim.

Regarding claims 17, 18, 20, 39, and 42 nothing in the prior art of the record teaches or fairly suggests allocating static resource in the CAC and allocating dynamic resource in the BoD, in combination with the other limitations listed in the claim.

Response to Arguments

5. Applicant's arguments with respect to claims 1-44 have been considered but are moot in view of the new ground(s) of rejection.

The examiner agrees with the applicant that the rejection in the prior office action was not appropriate. Therefore, a new office action has been submitted.

Art Unit: 2666

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ronald Abelson whose telephone number is (703) 306-5622. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema Rao can be reached on (703) 308-5463. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-9600.

Ronald Abelson Examiner Art Unit 2666

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February 26, 2003

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Page 7